

## Patent Abstracts of Japan

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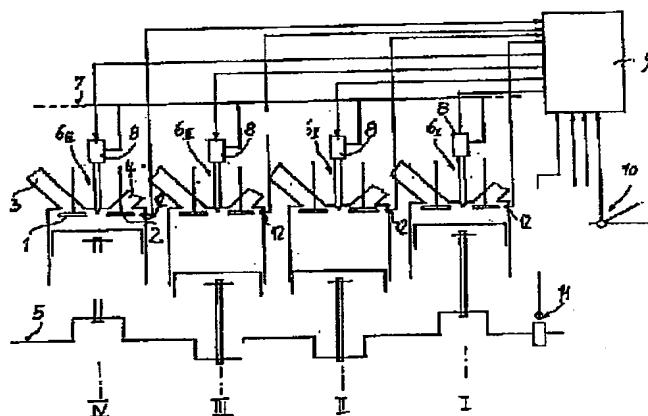
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APPLICANT : FEV MOTORENTECHNIK GMBH & CO KG;

INVENTOR : CASE MARK;

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TITLE : METHOD FOR UNIFORMING RATE OF FUEL INJECTED TO EACH CYLINDER IN INTERNAL COMBUSTION ENGINE



**ABSTRACT :** PROBLEM TO BE SOLVED: To carry out initial injection and after injection to all cylinders with actually same fuel rate by finding out drift from an average value of an energy conversion value of each cylinder, and regulating a period of initial fuel injection in an injector of a cylinder in which the drift is detected, for returning the energy conversion value to an average value.

**SOLUTION:** A distributor piping 7 is connected to a regulation driving part 8 per injector 6 (6 I to 6 IV) arranged on each cylinder of a multiple cylinder engine through a branch pipe. The regulation driving part 8 is provided with a magnetic or piezoelectric actuator, and is driven and controlled by a control device 9 according to a load condition decided by a position of an acceleration pedal 10. At the time of control, crank shaft rotating speed is held in a constant level for a prescribed period, an engine is operated only in a main injection stroke, an operating amplitude showing an energy conversion value of each cylinder is measured, drift from an average value of the energy conversion value of each cylinder is found out, and then, a period of initial fuel injection in the injector 6 in which the drift is detected is regulated.

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